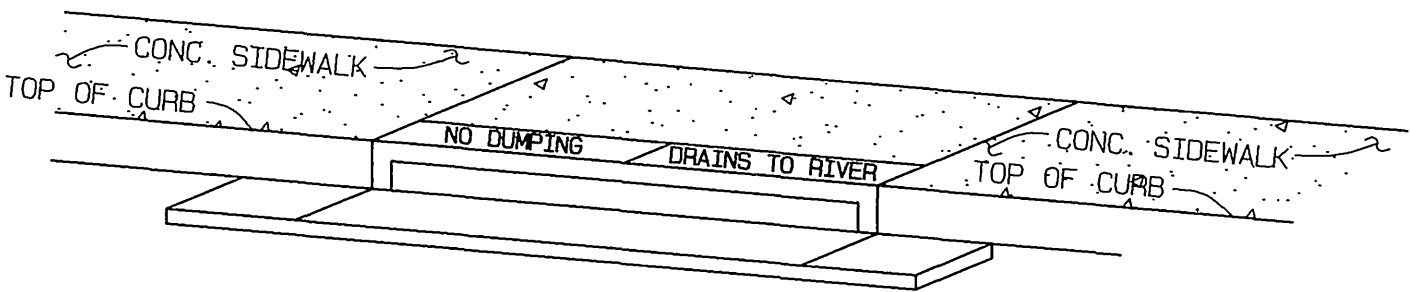


STORM DRAIN NOTES

- 1 QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
- 2 CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RIVERSIDE DEPT. OF PUBLIC WORKS STANDARD DRAWINGS, ITS SUPPLEMENTAL NOTES AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
- 3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT OF WAY IN ACCORDANCE WITH THE PROVISIONS OF LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.
- 4 THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
- 5 THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.
- 6 THE CONTRACTOR SHALL CALL IN A LOCATIONS REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.), PHONE NO. 1-800-227-2600, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY PUBLIC WORKS DEPARTMENT INVOLVING EXCAVATION FOR UNDERGROUND FACILITIES UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY IDENTIFICATION NUMBER BY U.S.A.
- 7 THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
- 8 ALL EMBANKMENT FILL SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DRY DENSITY AND SHALL BE OF AN APPROVED QUALITY.
- 9 BEFORE THE RIP RAP IS ACCEPTED, AS PLACED, AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.
- 10 ANY TRAFFIC CONTROL STRIPING OBLITERATED AND /OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE DAYS AFTER NOTIFICATION FROM THE CITY INSPECTORS.
- 11 NO PERSON SHALL PERFORM ANY CONSTRUCTION ACTIVITY OR INSTALL ANY OBJECTS WITHIN THE PUBLIC RIGHTS-OF-WAYS OR EASEMENTS OF THE CITY OF RIVERSIDE WITHOUT A VALID CONSTRUCTION PERMIT OR A STREET OPENING PERMIT OR AN ENCROACHMENT PERMIT ISSUED BY THE CITY'S PUBLIC WORKS DEPARTMENT.
- 12 ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.

CONSTRUCTION NOTES

- 1 CONSTRUCT 18" RCP (D-2000)
- 2 CONSTRUCT 24" RCP (D-2000)
- 3 INSTALL 1/4 TON GROUTED RIP RAP
- 4 CONSTRUCT METAL FLARED END PER CALTRANS STD. 94A SHOWN HEREON
- 405 CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. 405
- 431 CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. 431
- 452 PIPE BEDDING PER CITY OF RIVERSIDE STD. 452, CASE I



CATCH BASIN STENCILING DETAIL

- (A) STENCILS TO HAVE 2" LETTERS AS FOLLOWS:
NO DUMPING
DRAINS TO RIVER
- (B) PLACE BOTH STENCILS CENTERED WITHIN THE CATCHBASIN OPENING AND WITHIN THE TOP OF THE CURB.
- (C) SPRAY BOTH STENCILS WITH WHITE PAINT.
- (D) REMOVE STENCILS WHEN PAINT IS D

CATCH BASIN STENCILING DETAIL
NOT TO SCALE



CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-01

**ALBERT A. WEBB ASSOCIATES
CIVIL ENGINEERS**
3788 McCRA Y STREET RIVERSIDE, CA 92506
(909) 686-1070

APPROVED BY *Mo L. Faj* DATE *3/16/01*
R.C.E. NO. C39530

W.O. 99-0381 FOR: GRIFFIN INDUSTRIES F.B. 1999

MARK REVISIONS APPR. DATE

DESIGNED BY: *Q* CHECKED BY: *Q* PLN CHK REF

**CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT**

APPROVED BY: *R. Mc Brath* DATE: *5-7-2001*
PRINCIPAL ENGINEER
PARK DEPARTMENT
TRAFFIC DIVISION
P.W. ENG. MANAGER
STREET SERVICES

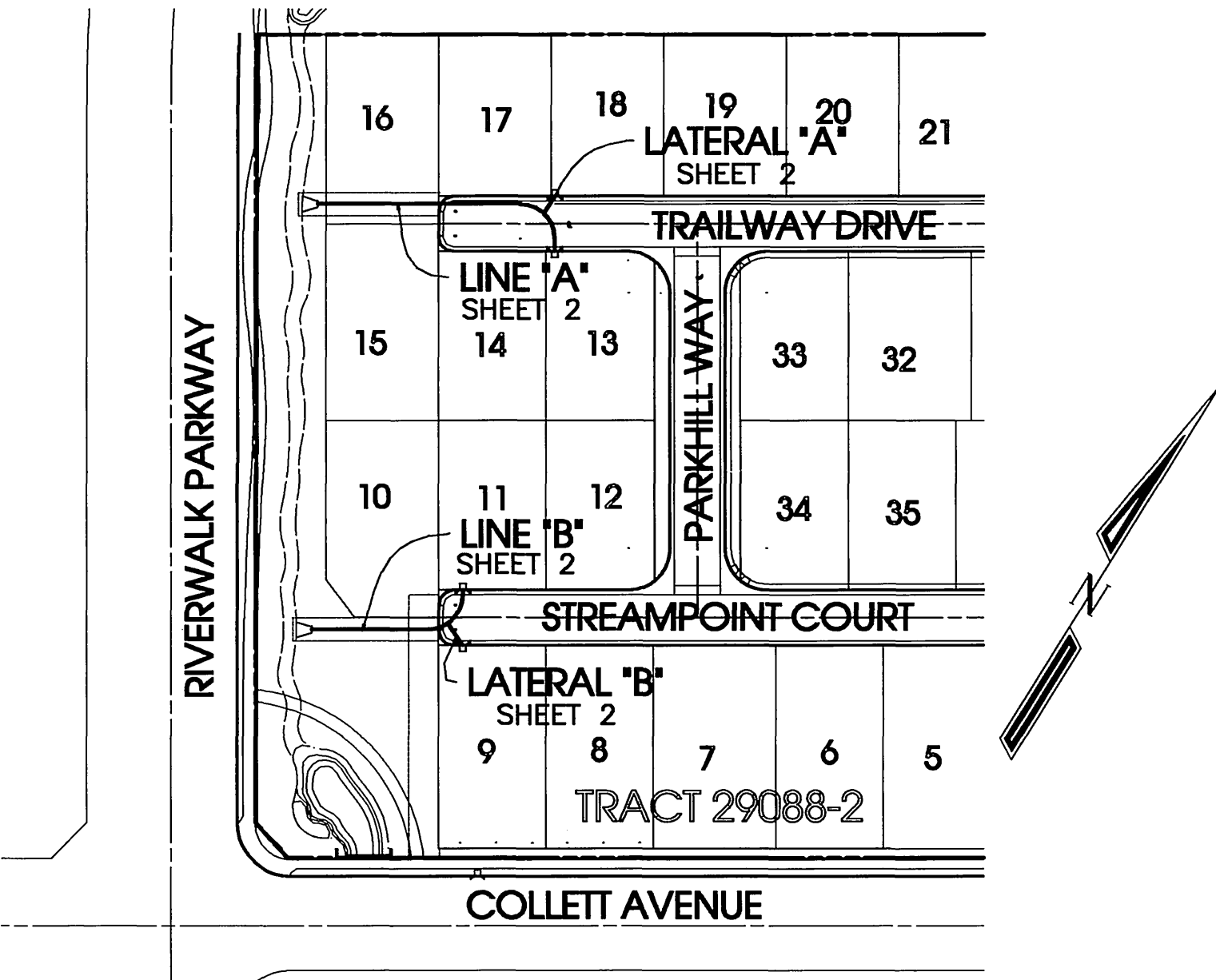
STORM DRAIN PLANS
TRACT NO. 29088-2
PRIVATE STORM DRAIN
INDEX SHEET

SCALE: HORIZ.: 1"=40' VERT.: 1"=4'

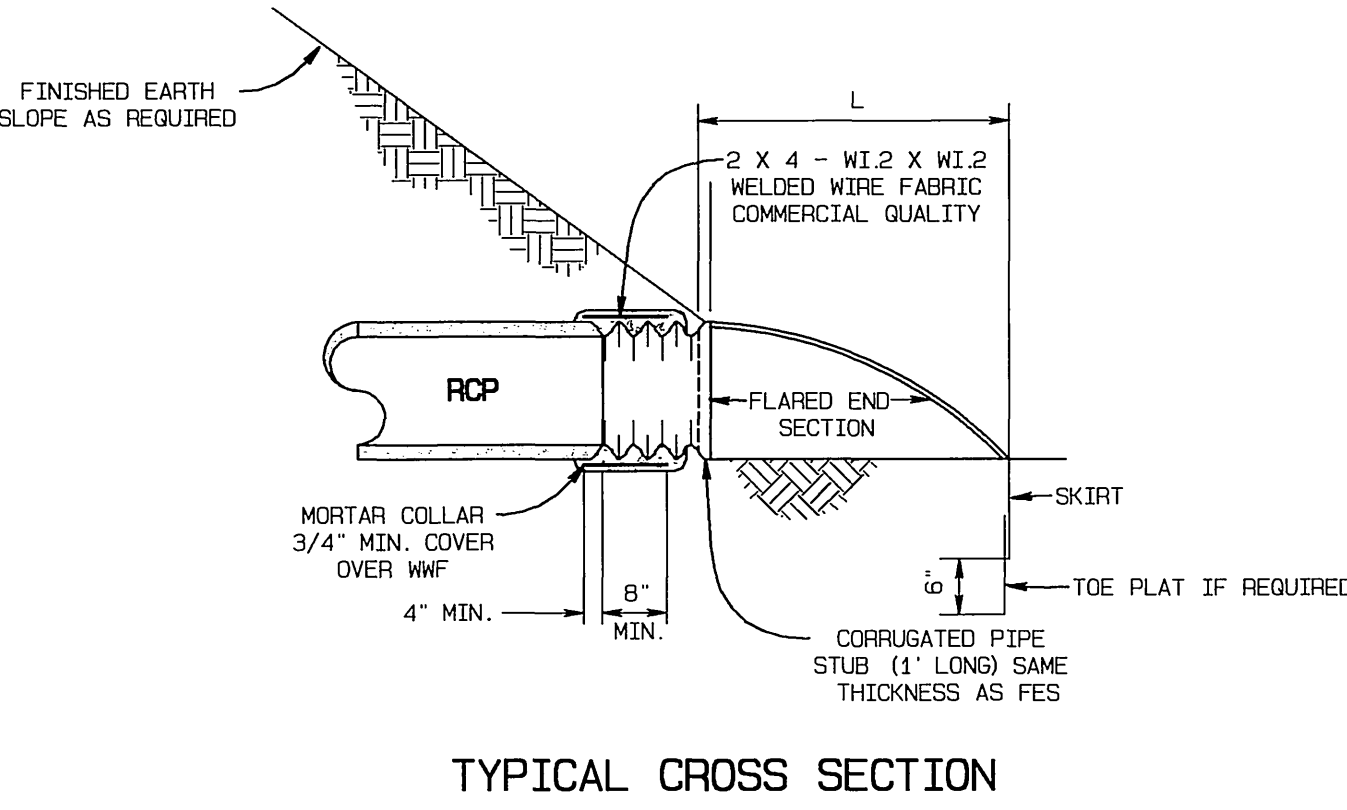
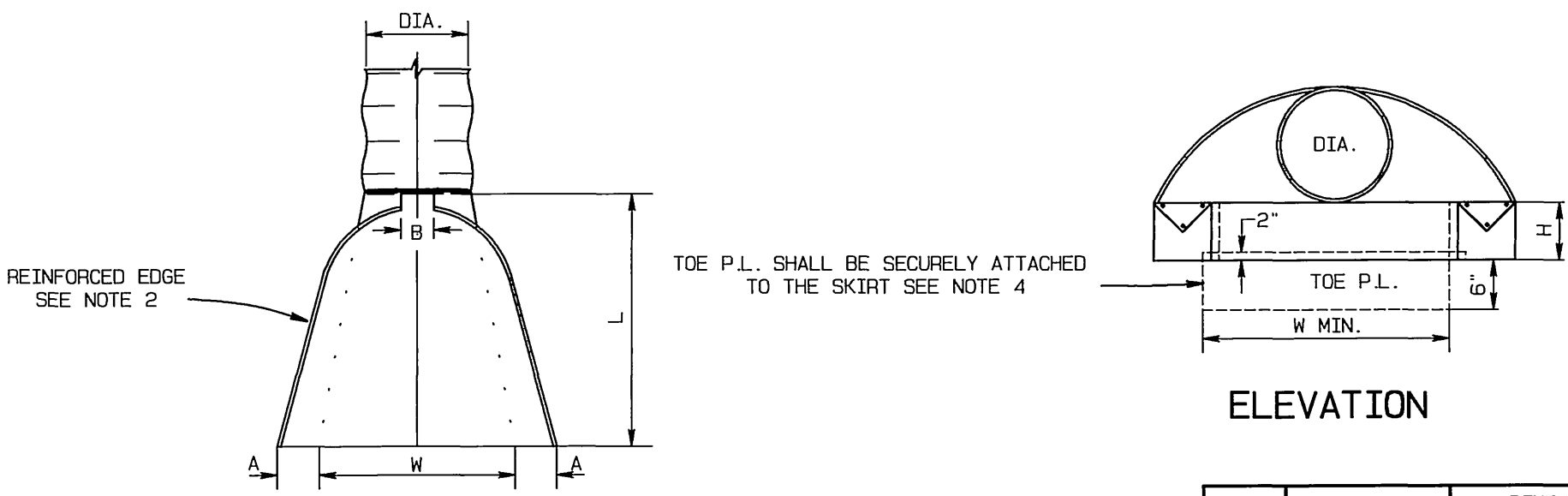
ACCOUNT NO. 99-0382
DRAWING NUMBER
D-688
SHEET 1 OF 2
99-0382



BENCH MARK:
CITY OF RIVERSIDE BENCH MARK NO. F2-03 P.K. NAIL AND TAG IN THE MOST SOUTHERLY CURB RETURN AT PIERCE STREET AND GOLDEN AVENUE.
ELEVATION: 722.756



LOCATION MAP
SCALE: 1" = 100'



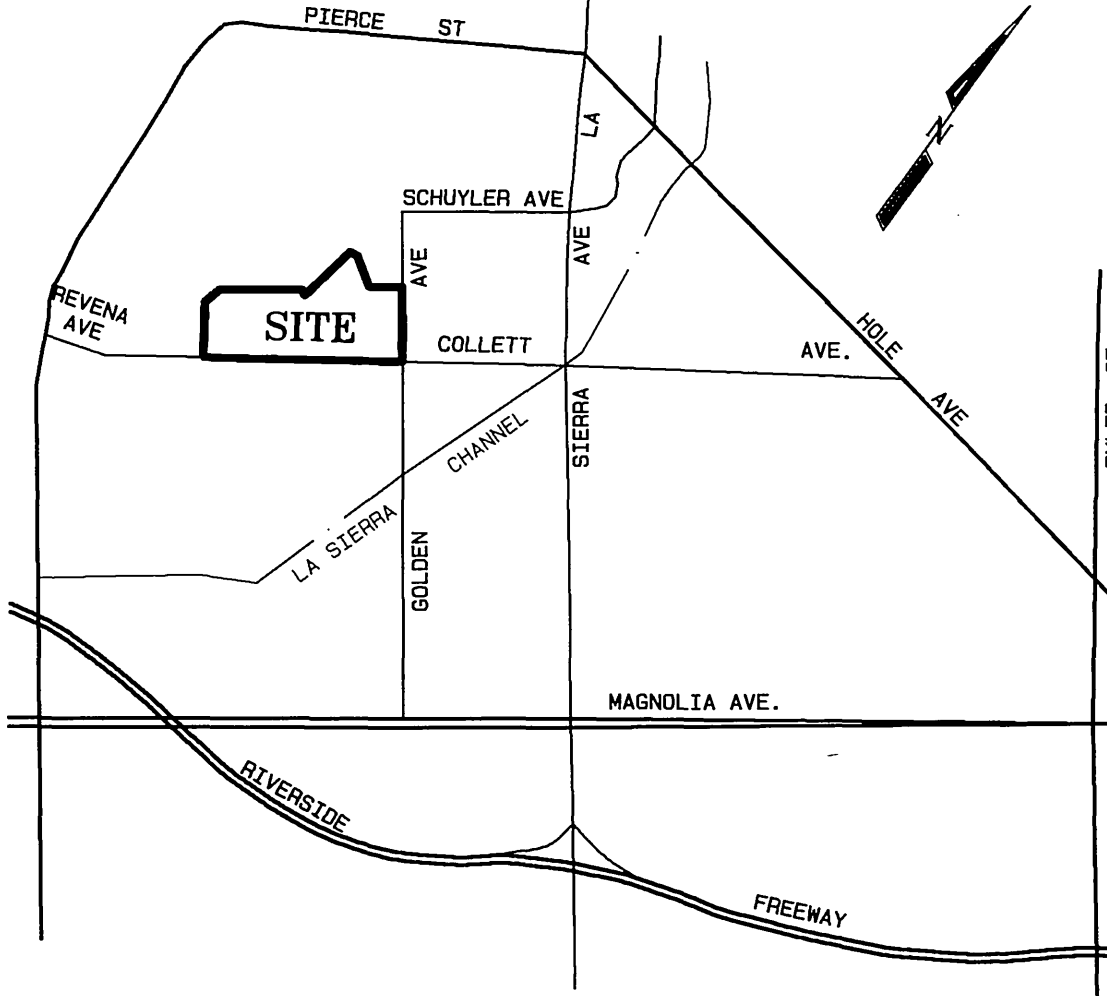
TYPICAL CROSS SECTION

FLARED END SECTION
CONNECTION TO RCP
NOT TO SCALE

PIPE DIA.	END SECTION THICKNESS	DIMENSION-INCHES				
		A	B	H	L	W
18"	0.064"	8	10	6	31	35
24"	0.064"	10	13	6	41	45

EQUIVALENT PLASTIC PFS TO MEET AASHTO M-294 AND ASTM D-1248 SPECIFICATIONS

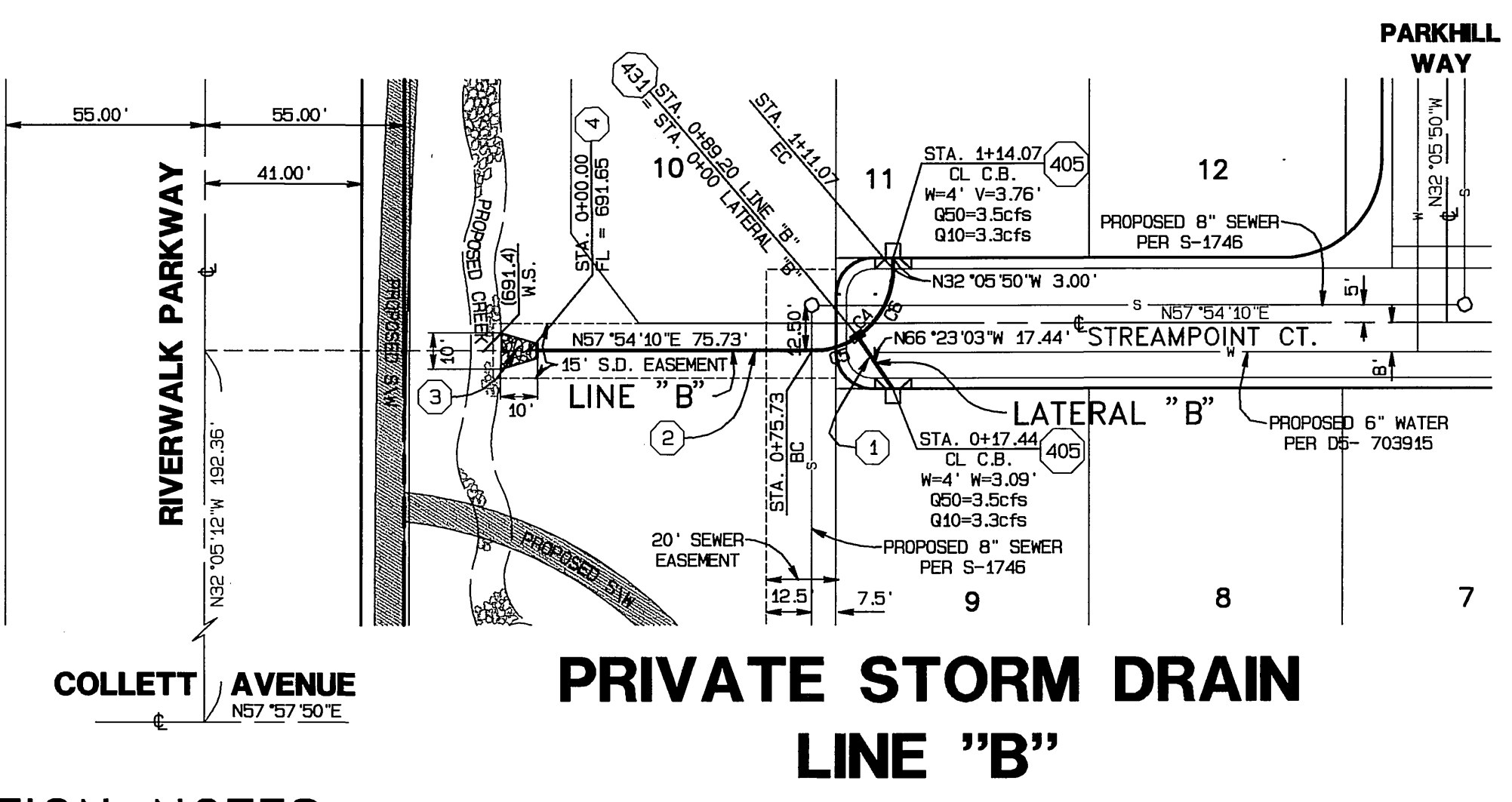
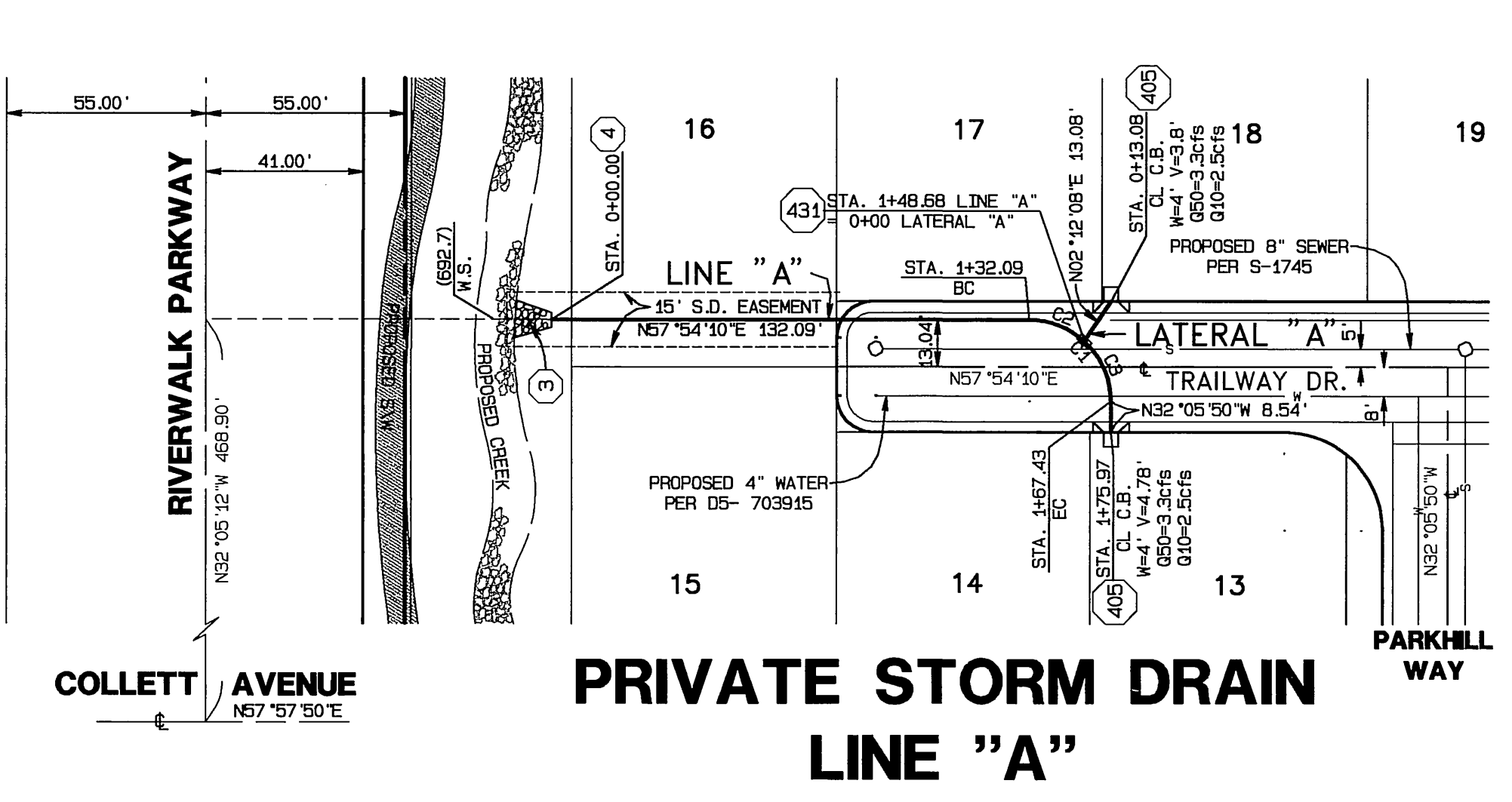
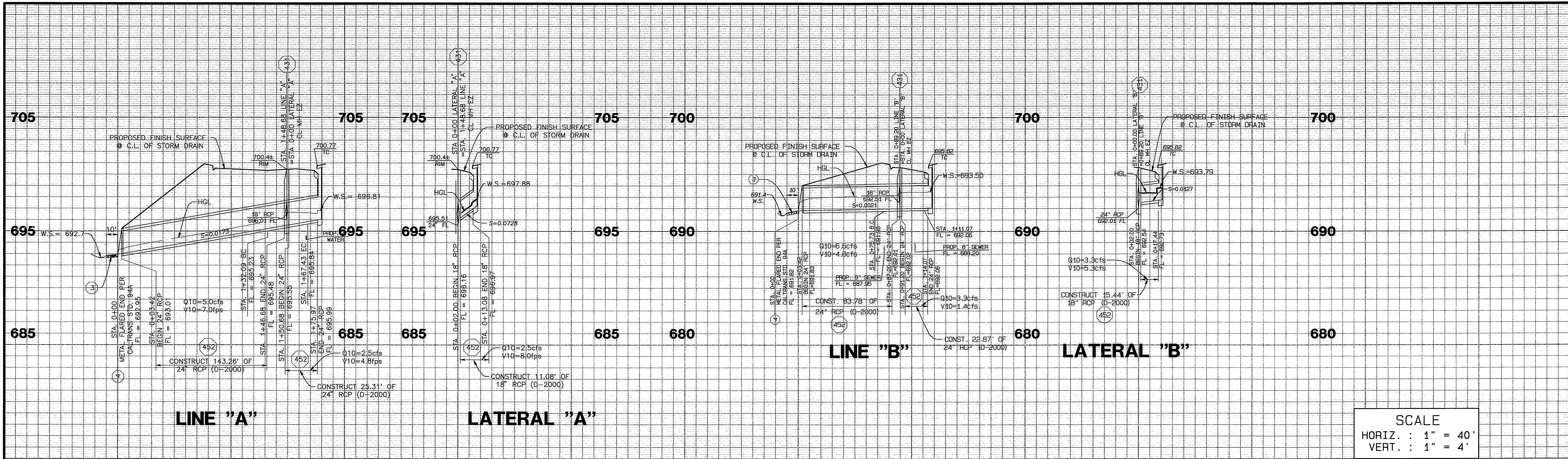
- NOTES
1. ALL 3-PIECE BODIES TO HAVE 0.109" THICK SIDES AND 0.138" THICK CENTER PANELS. WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIPHERY. MULTIPLE PANEL BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY RIVETS OR BOLTS.
2. REINFORCED EDGES TO BE SUPPLEMENTED WITH STIFFER ANGLES FOR THE 60" THRU 84" ROUND, 77" X 52" AND 83" X 57" PIPE-ARCH SIZES. THE ANGLES WILL BE 2" X 2" X 1/4" FOR THE 60" THRU 72" ROUND, 77" X 52" AND 83" X 57" PIPE-ARCH SIZES AND 2" X 2 1/2"
3. ANGLES REINFORCEMENT SHALL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 77" X 52" AND 83" X 57" PIPE-ARCH SIZES.
4. TOE PLATE TO BE AVAILABLE AS AN ACCESSARY WHEN SPECIFIED.
5. END OF PIPE TO BE FINISHED WITH ANNUAL CORRUGATIONS TO CONFORM FLARED END SECTION SO THAT MINIMAL LEAKAGE RESULTS FROM THE CONNECTION. OTHER DESIGNS MAY BE USED WITH APPROVAL OF THE ENGINEER.
6. FOR 12" THRU 24" HELICAL END SECTION CONNECTION, A UNIVERSAL COUPLING BAND ATTACHED TO THE METAL END SECTION BY RIVETS, BOLTS OR ONE INCH LONG SHOP TACK WELDS SPACED AT SAME INTERVALS AS DIMPLES MAY BE USED IN PLACE OF THE 112" STUB SEE ST



* AS-BUILT 1-09-06 FH

INDEXED 6-13-01 FH

FILE: G:\1999\09-0381\090381_50.DWG PLOT DATE: 3/9/2001



CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	90°00'00"	22.50'	35.34'	22.50'
C2	42°45'09"	22.50'	16.59'	8.69'
C3	47°44'51"	22.50'	19.75'	9.96'
C4	90°00'00"	22.50'	35.34'	22.50'
C5	34°17'13"	22.50'	13.46'	6.94'
C6	55°42'47"	22.50'	21.88'	11.89'

- CONSTRUCTION NOTES**
- 1 CONSTRUCT 18" RCP (D-2000)
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 - 3 INSTALL 1/4 TON GROUTED RIP RAP
 - 4 CONSTRUCT METAL FLARED END PER CALTRANS STD. 94A SHOWN ON SHEET 1
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 - 452 PIPE BEDDING PER CITY OF RIVERSIDE STD. 452, CASE I

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1-800-227-2600
TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK:
CITY OF RIVERSIDE BENCH MARK NO. F2-03 P.K. NAIL AND TAG IN THE MOST SOUTHERLY CURB RETURN AT PIERCE STREET AND GOLDEN AVENUE.
ELEVATION: 722.756

GRAPHIC SCALE 1"=40'

ALBERT A. WEBB ASSOCIATES CIVIL ENGINEERS
3788 McCRAE STREET RIVERSIDE, CA 92506
(909) 686-1070

APPROVED BY: *[Signature]* DATE: 3/6/01
R.C.E. NO. C39530

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY	BY DATE	APPROVED BY	BY DATE
PRINCIPAL ENGINEER	<i>[Signature]</i>	<i>[Signature]</i>	
PARK DEPARTMENT		DIRECTOR OF PUBLIC WORKS	
TRAFFIC DIVISION			
P.W. ENG. MANAGER	<i>[Signature]</i>		
STREET SERVICES			

DATE: 5-7-09

STORM DRAIN PLANS
TRACT NO. 29088-2
PRIVATE STORM DRAIN LINES A, B & LATERALS A, B

ACCOUNT NO. 99-0382
DRAWING NUMBER **D-688**
SHEET **2** OF **2**

SCALE: HORIZ.: 1"=40' VERT.: 1"=4'

INDEXED 6-13-01 LTH

FILE: 6\1999\99-0381\990381.DWG PLOT DATE: 3/2/2001